U.S. COAST GUARD
719

# GENERAL NOTES

1. FOR LOCATIONS OF TOPSIDE MOUNTED EQUIPMENT RELATED TO ANTENNAS, SUCH AS TUNERS, COUPLERS, AMPLIFIERS, ETC., SEE ARRANGEMENT OF ELEC EQUIPMENT 02 DECK AND ABOVE (REFERENCE 21).

2. BONDING AND GROUNDING OF EQUIPMENT SHALL BE IN ACCORDANCE WITH MIL-STD-1310D, FOR BONDING AND GROUNDING OF ELECTRONIC EQUIPMENT, SEE REFERENCE 22.

3. ALL ABBREVIATIONS ARE IN ACCORDANCE WITH MIL-STD-12, UNLESS OTHERWISE NOTED.

4. THE FOLLOWING NON-STANDARD ABBREVIATIONS ARE USED ON THIS DRAWING:

I & BWD : (ISOMETRIC AND BLOCK WIRING DIAGRAM)
B & IWD : (BLOCK AND ISOMETRIC WIRING DIAGRAM)
IWD : (ISOMETRIC WIRING DIAGRAM)
N : (NEW)
E : (EXISTING)
R : (REUSED OR RELOCATED)
EIL : (EQUIPMENT IDENTIFICATION LIST)

△D3 5. SYM/MODEL AND OUTLINE & MTG DWG NO COLUMNS CONTAIN INFORMATION RELATING TO EXISTING NAVIGATION LIGHTS. IF NAVIGATION LIGHTS ARE REPLACED. REFER TO REF 20 FOR CURRENT HULL APPLICABILITIES AND TABLE BELOW.

| FN | NOMENCLATURE | OLD SYM | NEW SYM | OUTLINE & MTG DWG NO. |
|---|---|---|---|---|
| 54 | UPPER MAN OVBD & BREAKDOWN LIGHT | 115 | 115.1 | MIL-L-24560/2 |
| 55 | LOWER MAN OVBD & BREAKDOWN LIGHT | 115 | 115.1 | MIL-L-24560/2 |
| 56 | FWD ANCHOR LIGHT (WHITE) | 161.3 | 161.4 | MIL-L-24560/23 |
| 57 | AFT ANCHOR LIGHT (WHITE) | 161.3 | 161.4 | MIL-L-24560/23 |
| 58 | MASTHEAD LIGHT (WHITE) | 172.1 | 172.2 | MIL-L-24560/10 |
| 59 | RANGE LIGHT (WHITE) | 172.1 | 172.2 | MIL-L-24560/10 |
| 60 | UPPER TOWING LIGHT (WHITE) | 172.1 | 172.2 | MIL-L-24560/10 |
| 61 | LOWER TOWING LIGHT (WHITE) | 172.1 | 172.2 | MIL-L-24560/10 |
| 62 | PORT SIDE LIGHT (RED) | 182.1 | 182.2 | MIL-L-24560/9 |
| 63 | STBD SIDE LIGHT (GREEN) | 183.1 | 183.2 | MIL-L-24560/9 |
| 64 | STEERING LIGHT (WHITE) | 195.1 | 195.1 | MS 17318 |
| 65 | STERN LIGHT (CLEAR) | 196.1 | 196.3 | MIL-L-24560/8 |
| 66 | BLINKER LIGHT (PORT) | 191.2 | 191.2 | MIL-L-24560/5 |
| 67 | BLINKER LIGHT (STBD) | 191.2 | 191.2 | MIL-L-24560/5 |
| 68 | 12" SEARCH LIGHT | 66.1 | 66.1 | MIL-S-19551 |
| 70 | UNDERWATER TASK LIGHT (MIDDLE) | 114 | 192.1 | MIL-L-24560/6 |
| 73 | AIRCRAFT WARNING & SPEED LIGHT (PORT) | 115 | 160.1 | MIL-L-24560/1 |
| 74 | AIRCRAFT WARNING & SPEED LIGHT (STBD) | 115 | 160.1 | MIL-L-24560/1 |
| 75 | ASW LIGHT | 176 | 176 | HUBBELL 15365 |
| 76 | STERN TOWING LIGHT | 196.1 | 196.3 | MIL-L-24560/8 |
| 77 | STERN TOWING LIGHT (PORTABLE) | 196.4 | 196.4 | MIL-L-24560/8 |

△E 6. RELOCATE THE MODEL 8171 SPECTRUM ANTENNA TO THE YARDARM INSTALL THE AS-3819/SRN ANTENNA ON THE VACATED FOUNDATION.

## REFERENCES

| | NO. | TITLE | DRAWING NO. | |
|---|---|---|---|---|
| | 1 | TACAN SYS AN/URN-25 CKT "IR-RN" I & BWD | 378-FRAM-W- 423-003 | |
| | 2 | ~~RAD ANT SYS CKT "R-RA" BLK & IWD~~ | ~~441-003~~ | △G3 |
| | 3 | ~~SATL RCVG SYS AN/SRR-1 BLK & IWD~~ | ~~441-007~~ | △G3 |
| | | ~~CKT R-ES BLK & IWD~~ | | |
| | 4 | ~~SURFACE SEARCH RADAR SYS AN/SPS-64(V)4~~ | ~~451-001~~ | △H5 |
| | | ~~I & BWD~~ | | |
| | 5 | AIR SRCH RDR SYS AN/SPS-40( ) CKT "R-EA" | 452-001 | △D2 |
| | 6 | RDR IFF SYS CKT "R-1C" & "R-1T" BLK & IWD | 455-001 | |
| | | & AN/SKR-4 I & BWD | | |
| | 7 | SONAR SIGNAL PROCESSING SYS AN/SQR-17A (V)1 | 460-001 | |
| | 8 | SATL XCVR SYS AN/WSC-3(V)3 I & BWD | 441-008 | |
| | | "R-CI" AND "R-IE" ISOMETRIC AND BLK WRG DIAG | | |
| | 9 | ELECTRONIC COUNTERMEASURE SYSTEM CIRCUIT | 472-003 | △D1 |
| | 10 | GUN FIRE CONT SYS MK92 MOD1 BLK & IWD | 481-004 | |
| | 11 | ELEX NAVIGATIONAL SYS I & BLK WRG DIAG | 423-001 | |
| | | CKT TV BLK & IWD | | |
| | 12 | RECREATION TV & ENTERTAINMENT SYSTEM | 434-001 | |
| | 13 | ANTENNA FOUNDATIONS | 184-001 | |
| | 14 | JACK & ENSIGN STAFF | 611-002 | |
| | 15 | FOREMAST | 171-003 | |
| | 16 | MAINMAST | 171-001 | |
| | 17 | ~~ANTENNA EQPT FOUNDATIONS~~ | ~~184-007~~ | △D1 |
| | 18 | ELEX & ELEC FOUNDATIONS MN DK & ABOVE | 184-003 | |
| | 19 | ANTENNA DETAILS | 405-002 | |
| | 20 | RUNNING, SIGNAL & ANCHOR LIGHTS - IWD | 422-001 | |
| | 21 | ARR OF ELEC EQPT 02 LEVEL & ABV | 301-008 | △D1 |
| | | SCHEDULE AND DETAILS | | |
| | 22 | BONDING & GROUNDING OF ELECTRONIC EQPT | 406-002 | |
| | 23 | AN/WRN-6(V) ARRANGEMENT, INSTALLATION & BWD | 378-FRAM-W- 423-100 | △E |
| | 24 | MAST & PLATFORM FOR INMARSAT MX 2400 ANTENNA | 378-FRAM-W- 441-101 | △F |
| | 25 | RADIO COMMUNICATIONS BLOCK WIRING DIAGRAM & DETAILS | 378-FRAM-W- 441-015 | △G3 |
| △H3 | 26 | INMARSAT STANDARD-C SYS B.W.D. & DETAILS | 378-FRAM-E- 441-029 | |
| | 27 | AN/SPS-73(V)4 SRFC SRCH RDR BLK WRG DIAG & DETAILS | 378-FRAM-E- 451-030 | △H7 |
| △J1 | 28 | INMARSAT-C UPGRADE ARR & DETAILS | FL-6700-74 | |
| △K2 | 29 | DEEPWATER AIS - CABLE BLOCK DIAGRAM | 378-FRAM-E-423-013 | |
| | 30 | DEEPWATER AIS - CABLE RUN SHEET | 378-FRAM-E-423-014 | |
| | 31 | DEEPWATER LAW MARINE AND DSC RADIO - CBD | 378-FRAM-E-441-033 | |
| △K2 | 32 | DEEPWATER LAW MARINE AND DSC RADIO - CRS | 378-FRAM-E-441-034 | |
| △L2 | 33 | SEI EQUIPMENT AN/SSX-1 BWD AND DETAILS | 378-FRAM-E-441-034 | |
| △M5 | 34 | SIRVSS & CVRS BWD & INSTALL DETAILS | FL-6701-221 | |
| △M6 | 35 | SINS NAVIGATION SYSTEM BWD & DETAILS | 378-FRAM-E-423-017 | |

## REVISIONS

| ZONE | REV | DESCRIPTION | DATE | APPROVED |
|---|---|---|---|---|
| ALL | A | ORIGINAL ISSUE | JK | 6-3-86 |
| ALL<br>ALL<br>VAR<br>VAR<br>ALL | B | 1. REVISED DRAWING IN ITS ENTIRETY. THIS REVISION INCLUDES THE FOLLOWING CHANGES:<br>2. EXTENDED DRAWING APPLICABILITY TO HULL 720. THE ABOVE CHANGE INCORPORATES ECN FE-083.<br>3. CHANGED NOMENCLATURE OF ANTENNAS 1-10A THROUGH 1-10D (F/N 10 THROUGH 13) FROM AS-2815/SSR-1 TO AS-2815/SSR-1A AND TITLE OF REFERENCE 3 FROM SAT RECEIVING SYSTEM AN/SSR-1 B & IWD TO SAT RECEIVING SYSTEM AN/SSR-1A B & IWD. THE ABOVE CHANGES INCORPORATE MOD-0068.<br>4. CHANGED ANTENNA 4-3 (F/N 31) FROM AS-514B/URD-4 TO CDYM-TD-L1650, ADDED ANTENNA IFF AS-177B/UPX (SP & WT) (F/N 53). RELOCATED ANTENNAS 1-10A, 1-10B, 2-5, 3-3 AND CCEM-390-2 (F/N 10, 11, 18, 27 AND 46 RESPECTIVELY). THE ABOVE CHANGES INCORPORATE MOD-0035.<br>5. LIFTED RESERVATIONS 1 AND 2 AND EXTENDED DRAWING APPLICABILITY TO HULL 724. | DCL | 4/13/88 |
| SH 2 EIL, SH 3 3F 4F, SH 4 5D 4F<br>SH 2 EIL<br>SH 2 EIL<br>SH 2 EIL<br>SH 2 EIL<br>SH 2 EIL<br>SH 2 EIL<br>SH 2 EIL<br>SH 2 EIL, SH 3 5F,8F, SH 4 5E,8C<br>SH 4 4D<br>ALL | C | 1. ADDED ASW LIGHT F/N 75. REVISED PLAN 4-A (SH 3) & ELEV 4-A (SH 4) TO SUIT. REVISED QTY OF 12" SEARCH LIGHT F/N 68 FROM 4 TO 2 & ADDED ALTERNATE LOCATION NOTATION TO ONE (1) EACH, PORT & STBD 12" SEARCH LIGHT ON BODY OF DWG. THE ABOVE CHANGES INCORPORATE ECN FE-1183.<br>2. REVISED SYM/MODEL COLUMN FOR ANTENNA 1-9 (FREQ & TIME STD) F/N 9 FROM 8206 TO CEES-8206 AND ANTENNA (TACAN) F/N 45 FROM AS-3240/URN TO AS-3240 ( )/URN. THE ABOVE CHANGES INCORPORATE MOD 0087.<br>3. REVISED SOURCE UNDER QTY COLUMN FOR ANTENNA 1-2, 1-3, 1-9, 2-2, 2-5, 2-13 AND 2-15, F/N 1, 2, 9, 15, 18, 23, AND 24 RESPECTIVELY. THE ABOVE CHANGES INCORPORATE MOD 0109.<br>4. REVISED NOMEN COLUMN FOR ANT 1-2, 1-3, 1-6, 1-7 AND WHIP (HF, SHORT RANGE) ANTENNA AND UNDERWATER TASK LIGHT F/N 1, 2, 6, 7, 46 AND 70 RESPECTIVELY.<br>5. REVISED ORD REF COLUMN FROM REF 2 TO REF 19 FOR ANTENNA 1-5A, 1-5B, 3-3, 3-4, 3-5 AND 3-6, FN 4, 5 AND 27 THRU 30 RESPECTIVELY.<br>6. REVISED SYM/MODEL COLUMN FOR 12" SEARCHLIGHT, INFRARED XMTR BEACON (PORT) AND INFRARED XMTR BEACON (STBD) F/N 68, 71 & 72 RESPECTIVELY.<br>7. REVISED REMARKS COLUMN FOR F/N 54 THRU 67, 69, 70, 73 AND 74.<br>8. REVISED OUTLINE AND MTG DWG NO. COLUMN FOR 19" SEARCH LIGHT F/N 69.<br>9. ADDED STERN TOWING LIGHT, STERN TOWING LIGHT ((PORTABLE) AND WHISTLE LIGHT F/N 76, 77 & 78 RESPECTIVELY. REVISED BODY OF DWG TO SUIT.<br>10. REVISED DEPICTION OF ANT 2-5 AND 2-14 F/N 18 AND 46 RESPECTIVELY TO REFLECT A HEIGHT OF 23 FT.<br>11. EXTENDED DWG'S APPLICABILITY TO HULLS 719, 722, 723, 725 AND 726. REVISION ITEMS 4 THRU 11 DUE TO DESIGN DEVELOPMENT. | 12/6/88 | DCL |
| SH1 REF<br>GN | D | 1. REVISED REF 9, 21. DELETED REF 17.<br>2. REVISED REF 5 TO INC ECN FE-1633.<br>3. ADDED GN 5. | | |

REVISIONS CONT'D IN ZONE 2-H

## REVISIONS (CONTINUED)

| ZONE | REV | DESCRIPTION | DATE | APPROVED |
|---|---|---|---|---|
| SH2 B/M | D (CONTD) | 4. REVISED NOMENCLATURE OF FN39 FROM "AS-2782/SPS-40B" TO "AS-2782/SPS-40( ) TO INC ECN FE-1633.<br>5. REV FN54 THROUGH FN68, FN70, FN73 THROUGH FN77.<br>ITEMS 1-3 & 5 INC DWG CHANGES. | | |
| SH 1 6H<br>SH 2 3E<br>SHTS 2, 3, 4<br>SH 4 4F<br>ALL | E | ADDED REFERENCE 23<br>CHANGED FIND NO'S 25 & 26 FM MLA-2D/CG TO MLA-324 & MLA-1E-CG TO MLA-115 RESPECTIVELY<br>ADDED FIND NO'S 79, 80 & 81; GEN NOTE 6 DELETED FIND NO'S 32 & 47<br>ADDED DETAIL 2-F/4<br>CONVERTED TO AUTO-CAD FORMAT IAW COMDT INST M9085.1 THE FOLLOWING VIEWS WERE RENUMBERED AS FOLLOWS:<br>WAS: SHT 3: PLAN 4-A — IS: PLAN VIEW<br>WAS: SHT 4: ELEV 4-A — IS: 5-B/4<br>THIS REVISION REFLECTS THE SCCS INSTALLATION IAW PROJECT 23412 & MINILOOP REPLACEMENT PROJECT 32809. | 11-15-94 | BY: RWW SKA<br>APPVD: RGM/S/<br>KSL/S/<br>RVS/S/ |
| ALL | F | THIS REVISION REFLECTS THE INMARSAT STD "A" SYSTEM INTALLATION IAW PROJECT 32906.<br>ADDED FIND #82, ADDED REF #24. | 6-22-95 | BY: REC<br>RGM/S/<br>KSL/S/<br>RVS/S/ |
| 3&4<br>2&4<br>1 | G | THIS REVISION REFLECTS UPDATES AND CHANGES IAW PROJECT 24802.<br>1. RELOCATED PC #31.<br>2. ADDED PC #83.<br>3. DELETED REF'S #2, 3 & 7. ADDED REF #25. | 8-1-96 | BY: RWW<br>RGM/S/<br>KSL/S/ |
| SH 2 4-F, SH 3,4 ALL<br>SH 4 8-F<br>SH 1 6-F<br>SH 1 4-D 3-A<br>SH 2 4-D, SH 1 4-H<br>SH 2 8-E,F, SH 3,4 ALL<br>SH 1 6-F | H | ITEMS 1 THRU 4 REFLECT UPDATES AND CHANGES IAW PROJECT 35901.<br>1. ADDED PC #84.<br>2. ADDED DET 8-F/4.<br>3. ADDED REF #26.<br>4. REVISED PLAN DISTRIBUTION TABLE & INDEX.<br>ITEMS 5 THRU 7 REFLECT UPDATES AND CHANGES IAW PROJECT 24406.<br>5. DELETED PC# 38 & 40, REF #4<br>6. ADDED PC# 85 THRU 88.<br>7. ADDED REF# 27 | 5-8-00 | BY: DAK<br>RGM/S/<br>RBS/s/<br>KSL/S/ |
| 1<br>1<br>2,3,4 | J | THIS REVISION REFERENCES, UPDATES, AND CHANGES IAW PROJECT 50402<br>1. ADDED REF #28<br>2. REVISED INDEX<br>3. REVISED FN 84<br>4. REVISED DETAIL 8-F/4 | 08-04-04 | BY: WES<br>RGM<br>SPM |
| 1<br>1<br>2,3,4 | K | THIS REVISION INCORPORATES THE INSTALLATION OF AIS AND LAW MARINE AND DSC RADIOS.<br>1.UPREV'D INDEX AND PLAN APPLICABILITY<br>2.ADDED REFERENCES #29 TO #32<br>3.ADDED PC#89 TO PC#94 | 07-31-06 | BY: GBS<br>JFH/S/ |
| 1<br>2,3,4 | L | THIS REVISION IAW PROJECT 23802 AN/SSX-1 SEI EQUIPMENT INSTALLATION<br>1. REVISED TITLE SHEET<br>2. ADDED ANTENNA 5-8, ITEM #95, REF. #33<br>3. DELETED ITEM #49 | 09-08-08 | BY: AFS<br>CHK'D: RGM<br>SPM/S/ |

REVISIONS CONT'D IN ZONE 4-C

## REVISIONS (CONTINUED)

| ZONE | REV | DESCRIPTION | DATE | APPROVED |
|---|---|---|---|---|
| <br>SH. #1 ALL<br>8-E/2 4-C/3 3-F/4<br>8-E/2 3-F/3 3-F/4<br>4-C/3 4-E/4 4-C/2<br>6-E/1<br>8-F/2<br>8-D/2 4-D/3 4-F/4<br>6-E/1 | M | THIS REVISION IAW PROJECTS 28815 SINS NAVIGATION SYSTEM INSTALLATION & 23802 SIRVSS INSTALLATION. ANTENNA POSITIONS DERIVED FROM SITE SURVEY ON CGC SHERMAN (HULL 720)<br>1. REVISED TITLE SHEET<br>2. ADDED ANTENNA 6-4.<br>3. ADDED ANTENNA 1-15.<br>4. DELETED ANTENNA 8-2 (ITEM #43)<br>5. ADDED REFERENCE #34.<br>6. REVISED FIND NO. 82.<br>7. ADDED FIND NO. 98.<br>8. ADDED REFERENCE #35. | 01/23/09<br>02/13/09<br>5/27/09 | BY: AFS/ WES<br>CHK'D: WES/ AFS<br>SPM/S/<br>CGYard |

## INDEX △H4

| SH | DESCRIPTION | REVISION | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | DWG TITLE, REFERENCES, REVISIONS AND GENERAL NOTES, PLAN APPLICABILITY & PLAN DIST. | E | F | G | H | J | K | L | M | △J2 |
| 2 | EQUIPMENT IDENTIFICATION LIST | E | F | G | H | J | K | L | M | |
| 3 | ARRANGEMENT, PLAN | E | F | G | H | J | K | L | M | |
| 4 | ARRANGEMENT, ELEVATION 5-A/4 & DETAIL 2-F/4 | E | E | G | H | J | K | L | M | |

## △H4 PLAN APPLICABILITY

| HULL NO. | CUTTER NAME | ALT | DATE S/A COMPLETED | DATE S/A CERTIFIED |
|---|---|---|---|---|
| 726 | MIDGETT | M | | |
| 725 | JARVIS | M | | |
| 724 | MUNRO | M | | |
| 723 | RUSH | M | | |
| 722 | MORGENTHAU | M | | |
| 720 | SHERMAN | M | | |
| 719 | BOUTWELL | M | | |
| 717 | MELLON | M | | |

△C11

USCG YARD, 2401 HAWKINS POINT RD
BALTIMORE, MARYLAND 21226-1797

| | INITIALS | DATE |
|---|---|---|
| DESIGN | L. CLEMMENS | 12/5/88 |
| DRAWN | L. CLEMMENS | 12/5/88 |
| CHECKED | G. ARTEAGA | |

TODD APPVL

USCG APPVL

U.S.C.G. APPROVAL

INDUSTRIAL DEPARTMENT, CGYD

U.S. COAST GUARD HEADQUARTERS WASHINGTON, D.C. 20593

NAVAL ENGINEERING DIVISION

378 FT WHEC

# GENERAL ARRANGEMENT OF ANTENNA, RUNNING, ANCHOR AND SIGNAL LIGHTS

| SIZE | FSCM CAGE NO | U.S.C.G. DRAWING NO. | REV |
|---|---|---|---|
| H | 81340 | 378-FRAM-W-401-015 | M |
| SCALE NONE | | 10.42 SQ FT | SHEET 1 OF 4 |

SCALE FACTOR 1
ELECTRONIC FILENAME 378-FRAM-W_401_15_1_-_M.dwg

DWG NO. 378-FRAM-W-401-015 SH 1 REV M

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| SHOPS: X11 SHIPFITTER SECT. | | | | |
| X12 SHEETMETAL SECT. | | | | |
| X13 WELDING SECT. | | | | |
| MECHANICAL GROUP: | | | | |
| SHOPS: X21 PIPEFITTER SECT. | | | | |
| ELECTRICAL GROUP: | [illegible] | [illegible] | [illegible] | [illegible] |
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| ALTERATION | [illegible] | [illegible] | [illegible] | [illegible] |
| TOTAL | [illegible] | [illegible] | [illegible] | [illegible] |

## EQUIPMENT IDENTIFICATION LIST

| FIND NO. | NOMENCLATURE | SYM/MODEL | QTY | | | OUTLINE & MTG DWG NO. | GFE | WT LBS | ORD REF | FDN REF | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | N | E | R | | | | | | |
| 1 | ANTENNA 1-2, WHIP (HF RCVG) | CCEM-229 | 1 | | | CG7610-01-GF1-0801 | | 142 | 2 | 17 | |
| 2 | ANTENNA 1-3, WHIP (HF RCVG) | CCEM-229 | 1 | | | CG7610-01-GF1-0801 | | 142 | 2 | 17 | |
| 3 | ANTENNA 1-4, (MF/HF DF) | TD-C338HS | 1 | | | TD-C338HS | | 14 | 11 | 13 | |
| 4 | ANTENNA 1-5A, LONG WIRE (HF) | | 1 | | | SHOP FAB | | | 19 | 13 | |
| 5 | ANTENNA 1-5B, LONG WIRE (HF) | | 1 | | | SHOP FAB | | | 19 | 13 | |
| 6 | ANTENNA 1-6, WHIP (MF RCVG) | AT-924A/SR | 1 | | | RE-F2695039 | | 6 | 2 | 17 | W/RF TUNER,TN-334A/SRA-17 |
| 7 | ANTENNA 1-7, WHIP (MF RCVG) | AT-924A/SR | 1 | | | RE-F2695039 | | 6 | 2 | 17 | W/RF TUNER,TN-334A/SRA-17 |
| 8 | ANTENNA 1-8 (RAYSAT 200) | CRP-NAU-3800R | 1 | | | CRP-NAU-3800R | | 2 | 11 | 13 | |
| 9 | ANTENNA 1-9 (FREQ & TIME STD) | MODEL 8171 | 1 | | | MODEL 8171 | | 3 | 2 | 15 | |
| 10 | ANTENNA 1-10A (SATL RCVG) | AS-2815/SSR-1A | | | 1 | 0967-541-9010 | | 12.75 | 3 | 13 | |
| 11 | ANTENNA 1-10B (SATL RCVG) | AS-2815/SSR-1A | | | 1 | 0967-541-9010 | | 12.75 | 3 | 13 | |
| 12 | ANTENNA 1-10C (SATL RCVG) | AS-2815/SSR-1A | | 1 | | 0967-541-9010 | | 12.75 | 3 | 17 | |
| 13 | ANTENNA 1-10D (SATL RCVG) | AS-2815/SSR-1A | | 1 | | 0967-541-9010 | | 12.75 | 3 | 17 | |
| 14 | ANTENNA 1-11 (LORAN "C") | M75/M68453 | 1 | | | DC50-JNA-750M | | 2 | 11 | 13 | W/COUPLER, AW-750 |
| 15 | ANTENNA 2-2 (AM-VHF) | D-2216 | 1 | | | TECH APPL D-2216 | | 2 | 2 | 15 | |
| 16 | ANTENNA 2-3 (UHF DIPOLE) | AT-150/SRC | 1 | | | RE-F2691919 | | 5 | 2 | 15 | |
| 17 | ANTENNA 2-4 (VHF) | NT-66095 | | 1 | | 0967-089-5010 | | 5 | 2 | 15 | |
| 18 | ANTENNA 2-5, WHIP (HF, SHORT RANGE) | CCEM-390-2 | 1 | | | CCEM-390-2 | | 27 | 2 | 13 | |
| 19 | ANTENNA 2-8 (VHF) | NT-66095 | | 1 | | 0967-089-5010 | | 5 | 2 | 15 | |
| 20 | ANTENNA 2-9 (UHF DIPOLE) | AT-150/SRC | 1 | | | RE-F2691919 | | 5 | 2 | 15 | |
| 21 | ANTENNA 2-10 (UHF DIPOLE) | AT-150/SRC | 1 | | | RE-F2691919 | | 5 | 2 | 15 | |
| 22 | ANTENNA 2-11 (UHF DIPOLE) | AS-390/SRC | 1 | | | RE-F2691919 | | 9 | 2 | 15 | |
| 23 | ANTENNA 2-13 (VHF-FM) | CCEM-396-1 | 1 | | | CCEM-396-1 | | 3 | 2 | 15 | |
| 24 | ANTENNA 2-15 (VHF-FM) | CCEM-396-1 | 1 | | | CCEM-396-1 | | 3 | 2 | 15 | |
| 25 | ANTENNA 3-1 (HF, MINILOOP) | MLA-324 | 1 | | | CG7610-01-GE8-4101 | | 150 | 2 | 17 | |
| 26 | ANTENNA 3-2 (HF, MINILOOP) | MLA-115 | 1 | | | CG7610-01-GE8-9610 | | 230 | 2 | 17 | |
| 27 | ANTENNA 3-3, FAN (HF BROADBAND) | | 1 | | | SHOP FAB | | | 19 | 13 | |
| 28 | ANTENNA 3-4, WIRE (MF XMTG) | | 1 | | | SHOP FAB | | | 19 | 19 | |
| 29 | ANTENNA 3-5, FAN (HF BROADBAND) | | 1 | | | SHOP FAB | | | 19 | 13 | |
| 30 | ANTENNA 3-6, WIRE (MF XMTG) | | 1 | | | SHOP FAB | | | 19 | 19 | |
| 31 | ANTENNA 4-3 (UHF DF) | CDYM-TD-L1650 | 1 | | | OPN MNL A1650 | | 13 | 11 | 13 | |
| 32 | ~~ANTENNA 4-4 (VHF ADF)~~ | ~~AN/SRD-22~~ | ~~1~~ | | | ~~CG7610-GE8-6410~~ | | ~~8~~ | ~~11~~ | ~~13~~ | |
| 33 | ANTENNA 5-1 (ESM) | AS-899EORF/SLR | 1 | | | RE-C2699894 | | 268 | 9 | 13 | |
| 34 | ANTENNA 5-2 (ESM) | NT-66131 | | 1 | | NAVSEA 900,656 | | 30 | 9 | 13 | |
| 35 | ANTENNA 5-3 (ESM) | NT-66132 | | 1 | | 0967-896-4010 | | 35 | 9 | 13 | |
| 36 | ANTENNA 5-4 (ESM) | NT-66132 | | 1 | | 0967-896-4010 | | 35 | 9 | 13 | |
| 37 | ANTENNA 5-5 (ESM) | NT-66131 | | 1 | | NAVSEA 9000,656 | | 30 | 9 | 13 | |
| 38 | ~~ANTENNA 6-1 (X BAND, SURF SRCH)~~ | ~~AS-3194/AB-1247A~~ | ~~1~~ | | | ~~807-5034947~~ | | ~~140~~ | ~~4~~ | ~~15~~ | ~~W/ANT PEDESTAL~~ |
| 39 | ANTENNA 6-2 (AIR SRCH RDR) | AS-2782/SPS-40() | 1 | | | RE-D2699234 | | 1725 | 5 | 16 | |
| 40 | ~~ANTENNA 6-3 (S BAND, SURF SRCH)~~ | ~~AS-3195/AB-1248~~ | ~~1~~ | | | ~~807-5034947~~ | | ~~332~~ | ~~4~~ | ~~15~~ | ~~W/ANT PEDESTAL~~ |
| 41 | ANTENNA 7-1 (IFF) | AS-177B/UPX | 1 | | | RE-D2699046 | | 7 | 6 | 13 | |
| 42 | ANTENNA 7-2 (IFF) | AS-177B/UPX | 1 | | | RE-D2699046 | | 7 | 6 | 13 | |
| 43 | ~~ANTENNA 8-2 (AM/FM VHF/UHF)~~ | ~~MK22CA~~ | ~~1~~ | | | ~~NAV ELEX AB306~~ | | ~~12.1~~ | ~~12~~ | ~~13~~ | |
| 44 | ANTENNA 10-1 (IFF) | AS-177B/UPX | 1 | | | RE-D2699046 | | 7 | 6 | 13 | |
| 45 | ANTENNA (TACAN) | AS-3240( )/URN | 1 | | | 807-5034290 | | 107 | 1 | 16 | |
| 46 | ANTENNA, 2-14 WHIP (HF, SHORT RANGE) | CCEM-390-2 | 1 | | | CCEM-390-2 | | 27 | 2 | 13 | |
| 47 | ~~ANTENNA/COUPLER (OMEGA II)~~ | ~~CDED-OMEGA II~~ | ~~1~~ | | | ~~CDED-OMEGA II~~ | | ~~4~~ | ~~11~~ | ~~13~~ | |
| 48 | ANTENNA (LAMPS DATA LINK) | AS-2743/SKR-4 | 1 | | | RE-D5034359 | | 3 | 7 | 13 | |
| 49 | ~~ANTENNA (SONOBUOY RCVR)~~ | ~~AS-2809/SRC~~ | ~~1~~ | | | ~~0967-475-4010~~ | | ~~7~~ | ~~7~~ | ~~13~~ | |
| 50 | ANTENNA UD401 (MK 92) | MK53 MOD 0 | 1 | | | NAVSEA 5469711 | | 1960 | 10 | 13 | |
| 51 | ANTENNA (SATL DIR) | AS-3018A/WSC-1(V) | 1 | | | 0967-614-0010 | | 294 | 8 | 13 | |
| 52 | ANTENNA (SATL DIR) | AS-3018A/WSC-1(V) | 1 | | | 0967-614-0010 | | 294 | 8 | 13 | |
| 53 | ANTENNA (IFF) | AS-177B/UPX | 1 | | | RE-D2699046 | | 7 | | | (SP & WT) |
| 54 | UPPER MAN OVBD & BREAKDOWN LIGHT | | | 1 | | | | 2.5 | 20 | 15 | SEE GENERAL NOTE 5 |
| 55 | LOWER MAN OVBD & BREAKDOWN LIGHT | | | 1 | | | | 2.5 | 20 | 15 | SEE GENERAL NOTE 5 |
| 56 | FWD ANCHOR LIGHT (WHITE) | | | 1 | | | | 7.4 | 20 | 14 | SEE GENERAL NOTE 5 |
| 57 | AFT ANCHOR LIGHT (WHITE) | | | 1 | | | | 7.4 | 20 | 14 | SEE GENERAL NOTE 5 |
| 58 | MASTHEAD LIGHT (WHITE) | | | 1 | | | | 18 | 20 | 15 | SEE GENERAL NOTE 5 |
| 59 | RANGE LIGHT (WHITE) | | | 1 | | | | 18 | 20 | 16 | SEE GENERAL NOTE 5 |
| 60 | UPPER TOWING LIGHT (WHITE) | | | 1 | | | | 18 | 20 | 15 | SEE GENERAL NOTE 5 |
| 61 | LOWER TOWING LIGHT (WHITE) | | | 1 | | | | 18 | 20 | 15 | SEE GENERAL NOTE 5 |
| 62 | PORT SIDE LIGHT (RED) | | | 1 | | | | 18 | 20 | 18 | SEE GENERAL NOTE 5 |
| 63 | STBD SIDE LIGHT (GREEN) | | | 1 | | | | 18 | 20 | 18 | SEE GENERAL NOTE 5 |
| 64 | STEERING LIGHT (WHITE) | | | 1 | | | | 1.1 | 20 | 14 | SEE GENERAL NOTE 5 |

## EQUIPMENT IDENTIFICATION LIST (CONTINUED)

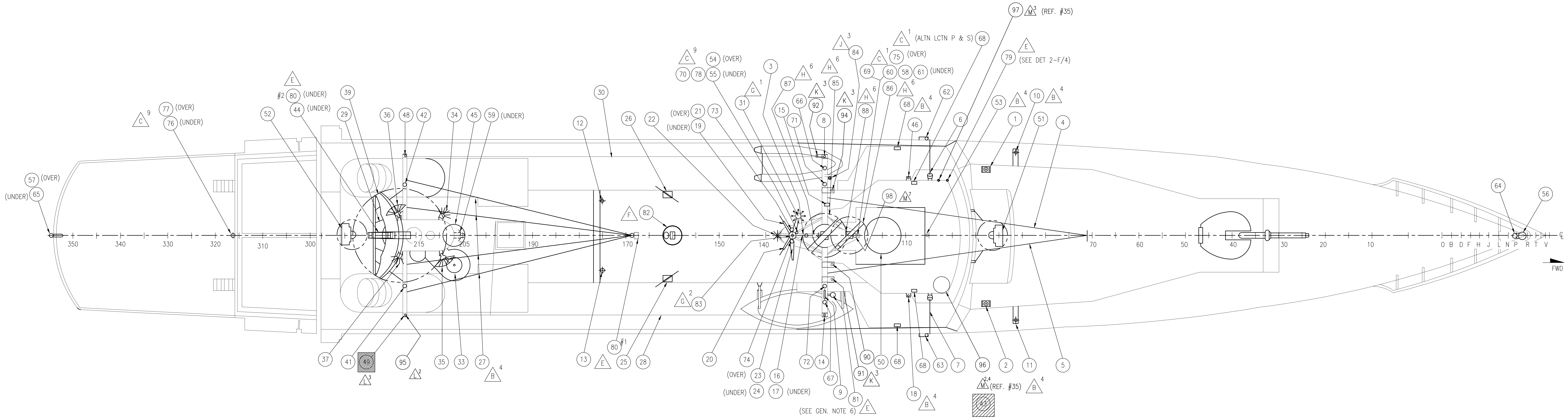
| FIND NO. | NOMENCLATURE | SYM/MODEL | QTY | | | OUTLINE & MTG DWG NO. | GFE | WT LBS | ORD REF | FDN REF | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | N | E | R | | | | | | |
| 65 | STERN LIGHT (CLEAR) | | | 1 | | | | 18 | 20 | 18 | SEE GENERAL NOTE 5 |
| 66 | BLINKER LIGHT (PORT) | | | 1 | | | | 25.6 | 20 | 15 | SEE GENERAL NOTE 5 |
| 67 | BLINKER LIGHT (STBD) | | | 1 | | | | 25.6 | 20 | 15 | SEE GENERAL NOTE 5 |
| 68 | 12" SEARCH LIGHT | | | 2 | | | | | 20 | 18 | SEE GENERAL NOTE 5 |
| 69 | 19" SEARCH LIGHT | | | 1 | | CARLISLE FINCH<br>19SL-6509 | | | 20 | 15 | CROUSE-HINDS |
| 70 | UNDERWATER TASK LIGHT (MIDDLE) | | | 1 | | | | 2.5 | 20 | 15 | SEE GENERAL NOTE 5 |
| 71 | INFRARED XMTR BEACON (PORT) | 67-12-31.2 | | 1 | | T-438/SAT-2 | | | 20 | 15 | |
| 72 | INFRARED XMTR BEACON (STBD) | 67-12-31.2 | | 1 | | T-438/SAT-2 | | | 20 | 15 | |
| 73 | AIRCRAFT WARNING & SPEED LIGHT (PORT) | | | 1 | | | | 2.5 | 20 | 15 | SEE GENERAL NOTE 5 |
| 74 | AIRCRAFT WARNING & SPEED LIGHT (STBD) | | | 1 | | | | 2.5 | 20 | 15 | SEE GENERAL NOTE 5 |
| 75 | ASW LIGHT | | | 1 | | | | | 20 | 15 | SEE GENERAL NOTE 5 |
| 76 | STERN TOWING LIGHT | | | 1 | | | | | 20 | 18 | SEE GENERAL NOTE 5 |
| 77 | STERN TOWING LIGHT (PORTABLE) | | | 1 | | | | | 20 | 18 | SEE GENERAL NOTE 5 |
| 78 | WHISTLE LIGHT | | 1 | | | KAHLENBERG M350 | | | 20 | 15 | |
| 79 | ANTENNA (GPS), P/N 819766-803 | VOLUTE, MX-200 | 1 | | | | GFE | | | | |
| 80 | ANTENNA COUPLER, P/N 798007-001-001 | MSR-4050 | 2 | | | | GFE | | | | MACKAY COMMUNICATIONS CORP. |
| 81 | ANTENNA, AN/WRN-6(V) GPS | AS-3819/SRN | 1 | | | | GFE | | | | |
| 82 | ANTENNA, NERA SATURN Bm | | 1 | | | | GFE | | | 24 | INMARSAT STD "B" |
| 83 | ANTENNA, VHF ADF, CFHN-IES-KDF-538 | | 1 | | | | GFE | | | | |
| 84 | ANTENNA, ADE, MDT-6000 | TT-3005M | 1 | | | | GFE | | | | INMARSAT STD "C" |
| 85 | ANTENNA, SURFACE SEARCH X-BAND | AS-4474/SPS-73(V)4 | 1 | | | HUGHES #XN5A (U) | GFE | 300 | | | W/PEDESTAL TYPE AB-1399/SPS-73(V)4 |
| 86 | ANTENNA, SURFACE SEARCH S-BAND | AS-4475/SPS-73(V)4 | 1 | | | HUGHES #SN5AF (U) | GFE | 275 | | | W/PEDESTAL TYPE AB-1400/SPS-73(V)4 |
| 87 | TEST SET, RADAR, PERFORMANCE MONITOR, X-BAND | TS-4500/SPS-73(V)4 | 1 | | | HUGHES #PM-30 | GFE | 20 | | | |
| 88 | TEST SET, RADAR, PERFORMANCE MONITOR, S-BAND | TS-4499/SPS-73(V)4 | 1 | | | HUGHES #PM-50 | GFE | 20 | | | |
| 89 | ANTENNA 3-7 (VHF P-25 #1) | 4265A | 1 | | | | | | | | T04KKH9PW9N |
| 90 | ANTENNA 3-8 (VHF P-25 #2) | 4265A | 1 | | | | | | | | T04KKH9PW9N |
| 91 | ANTENNA 3-9 (UHF P-25) | 4266 | 1 | | | | | | | | T04QKH9PW9N |
| 92 | ANTENNA 3-10 (VHF DSC) | 5241-R | 1 | | | | | | | | DSC500M000 |
| 93 | ANTENNA 4-5 (VHF AIS) | 954-VW | 1 | | | | | | | | SAAB-R4 |
| 94 | ANTENNA 4-6 (GPS AIS) | GPA-017 | 1 | | | | | | | | SAAB-R4 |
| 95 | ANTENNA 5-6 (AN/SSX-1 ESM) | AS-1200B | 1 | | | | | | | | AN/SSX-1 ESM EQUIPMENT |
| 96 | ANTENNA 6-4 (SINS NAVIGATION SYSTEM RADAR) | RSB-0071 | 1 | | | | | | | | SINS NAV EQUIP (24" DOME) |
| 97 | ANTENNA 1-15 (SINS NAVIGATION SYSTEM GPS RECEIVER, GP-37) | GPA-019 | 1 | | | | | | | | SINS NAV EQUIP. (GP-37 RECEIVER) |
| 98 | SIRVSS STABILIZED GIMBAL ASSEMBLY | | 1 | | | | GFE | | 34 | | FLIR SIRVSS SYSTEM |

EQUIPMENT IDENTIFICATION LIST

| SIZE | CAGE CODE | DWG. NO. | REV. |
|---|---|---|---|
| H | 81340 | 378-FRAM-W-401-015 | M |

SCALE: NONE | 10.42 SQ FT | SHEET 2

SCALE FACTOR 1
ELECTRONIC FILENAME 378-FRAM-W_401_15_2_-_M.dwg

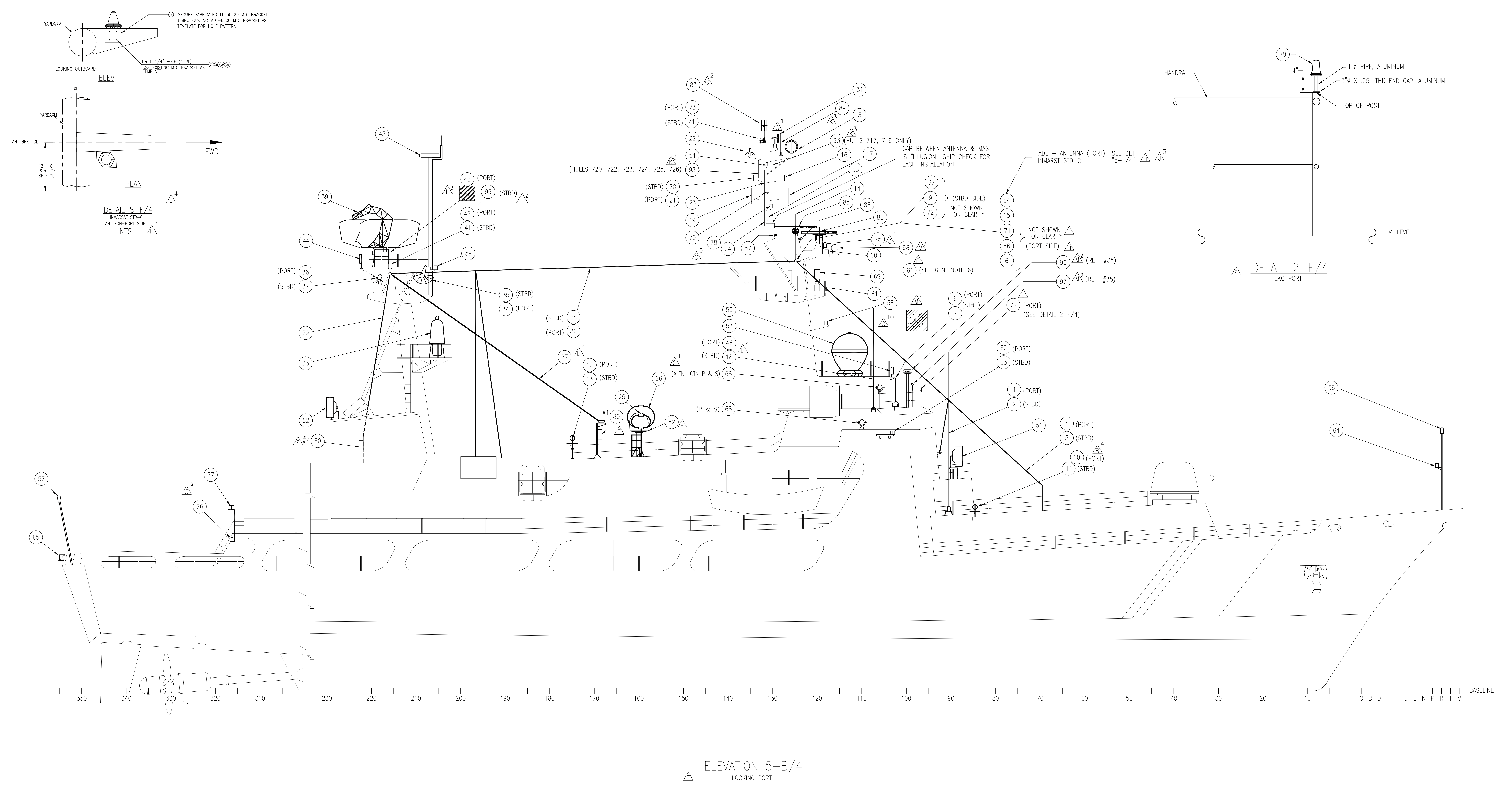

(REF. #35)
(ALTN LCTN P & S)
(SEE DET 2-F/4)
(OVER)
(UNDER)
(SEE GEN. NOTE 6)
(REF. #35)
FWD
350
340
330
320
310
300
215
205
190
170
150
140
110
70
60
50
40
30
20
10
O B D F H J L N P R T V

PLAN VIEW

ANTENNA ARRANGEMENT
PLAN VIEW

| SIZE | CAGE CODE | DWG. NO. | REV. |
|---|---|---|---|
| H | 81340 | 378-FRAM-W-401-015 | M |
| SCALE: 1/8"=1'-0" | 10.42 SQ FT | SHEET 3 | |

SCALE FACTOR 96
ELECTRONIC FILENAME 378-FRAM-W_401_15_3_-_M.dwg



SECURE FABRICATED TT-3022D MTG BRACKET USING EXISTING MDT-6000 MTG BRACKET AS TEMPLATE FOR HOLE PATTERN
YARDARM
DRILL 1/4" HOLE (4 PL) USE EXISTING MTG BRACKET AS TEMPLATE
LOOKING OUTBOARD
ELEV
CL
YARDARM
ANT BRKT CL
12'-10" PORT OF SHIP CL
FWD
PLAN
DETAIL 8-F/4
INMARSAT STD-C
ANT FDN-PORT SIDE
NTS
HANDRAIL
1"ø PIPE, ALUMINUM
3"ø X .25" THK END CAP, ALUMINUM
TOP OF POST
4"
04 LEVEL
DETAIL 2-F/4
LKG PORT
(HULLS 717, 719 ONLY)
(HULLS 720, 722, 723, 724, 725, 726)
GAP BETWEEN ANTENNA & MAST IS "ILLUSION"-SHIP CHECK FOR EACH INSTALLATION.
ADE - ANTENNA (PORT) INMARST STD-C SEE DET "8-F/4"
(STBD SIDE) NOT SHOWN FOR CLARITY
NOT SHOWN FOR CLARITY (PORT SIDE)
(SEE GEN. NOTE 6)
(REF. #35)
(SEE DETAIL 2-F/4)
(ALTN LCTN P & S)
(P & S)
(PORT)
(STBD)
#1
#2
BASELINE
350 340 330 320 310 230 220 210 200 190 180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10
0 B D F H J L N P R T V
ELEVATION 5-B/4
LOOKING PORT

ANTENNA ARRANGEMENT
ELEVATION 5-A/4, LOOKING PORT

| SIZE | CAGE CODE | DWG. NO. | REV. |
|---|---|---|---|
| H | 81340 | 378-FRAM-W-401-015 | M |
| SCALE: 1/8"=1'-0" | 10.42 SQ FT | SHEET 4 | |

DWG NO. 378-FRAM-W-401-015 SH 4 REV M

SCALE FACTOR 96
ELECTRONIC FILENAME 378-FRAM-W_401_15_4_-_M.dwg